AUTHOR INDEX

1985

Volumes 12–13

Throughout this index, bold face numerals are used to denote the volume number; lightface numerals denote the page.

RESEARCH-EXPOSITORY PAPERS

Chang, Sun-Yung A. and Fefferman, Robert, *Some recent developments in Fourier analysis and H^p-theory on product domains*, **12**, 1

Fefferman, Robert. *See* Chang, Sun-Yung A.

Fournier, John J. F. and Stewart, James, *Amalgams of L^p and l^q*, **13**, 1

Goldfeld, Dorian, *Gauss' class number problem for imaginary quadratic fields*, **13**, 23

Higgins, J. R., *Five short stories about the cardinal series*, **12**, 45

Smale, Steve, *On the efficiency of algorithms of analysis*, **13**, 87

Stewart, James. *See* Fournier, John J. F.

Vaaler, Jeffrey D., *Some extremal functions in Fourier analysis*, **12**, 183

RESEARCH ANNOUNCEMENTS

Almgren, F., *Optimal isoperimetric inequalities*, **13**, 123

Anderson, Michael T., *L^2 harmonic forms and a conjecture of Dodziuk-Singer*, **13**, 163

Babbitt, Donald G. and Varadarajan, V. S., *Local moduli for meromorphic differential equations*, **12**, 95

Bloch, Anthony M., *A completely integrable Hamiltonian system associated with line fitting in complex vector spaces*, **12**, 250

Brooks, Robert, *The first eigenvalue in a tower of coverings*, **13**, 137

Chernoff, Paul R., *Irreducible representations of infinite-dimensional transformation groups and Lie algebras*, **13**, 46

Cossec, F. and Dolgachev, I., *On automorphisms of nodal Enriques surfaces*, **12**, 247

Culler, Mark C., Gordon, C. McA., Luecke, J. and Shalen, Peter B., *Dehn surgery on knots*, **13**, 43

Day, Alan and Jónsson, Bjarni, *The structure of non-Arguesian lattices*, **13**, 157

Dolgachev, I. *See* Cossec, F.

Durumeric, O., *A generalization of Berger's almost $\frac{1}{4}$-pinched manifolds theorem. I*, **12**, 260

Fortune, Barry and Weinstein, Alan, *A symplectic fixed point theorem for complex projective spaces*, **12**, 128

Freyd, P., Yetter, D.; Hoste, J.; Lickorish, W. B. R., Millett, K.; and Ocneanu, A., *A new polynomial invariant of knots and links*, **12**, 239

Gordon, C. McA. *See* Culler, Mark C.

Goss, David, *Units and class-groups in the arithmetic theory of function fields*, **13**, 131

Harrison, Jenny, *Continued fractals and the Seifert conjecture*, **13**, 147

Hoffman, David A. and Meeks, William H. III, *Complete embedded minimal surfaces of finite total curvature*, **12**, 134

Hoste, J. *See* Freyd, P.

Hsiang, Wu-teh, Hsiang, Wu-yi and Sterling, Ivan, *On the construction of codimension-two minimal immersions of exotic spheres into Euclidean spheres*, **12**, 120

Hsiang, Wu-yi. *See* Hsiang, Wu-teh.

Jones, Vaughan F. R., *A polynomial invariant for knots via von Neumann algebras*, **12**, 103

Jónsson, Bjarni. *See* Day, Alan.

Kaminker, Jerome, *C^*-algebras and differential topology*, **12**, 125

Kerckhoff, Steven, Masur, Howard and Smillie, John, *A rational billiard flow is uniquely ergodic in almost every direction*, **13**, 141

Kerman, R. and Sawyer, E., *Weighted norm inequalities for potentials with applications to Schrödinger operators, Fourier transforms and Carleson measures*, **12**, 112

Kolaitis, Ph. G., Prömel, H.-J. and Rothschild, B. L., *Asymptotic enumeration and a 0-1 law for m-clique free graphs*, **13**, 160

Korenblum, B., *BMO estimates and radial growth of Bloch functions*, **12**, 99

Libgober, A., *Homotopy groups of the complements to singular hypersurfaces*, **13**, 49

Lickorish, W. B. R. *See* Freyd, P.

Liu, Tai-Ping, *Nonlinear stability of shock waves for viscous conservation laws*, **12**, 233

Llave, R. de la, Marco, J. M. and Moriyón, R., *Canonical perturbation theory of Anosov systems, and regularity results for the Livsic cohomology equation*, **12**, 91

Luecke, J. *See* Culler, Mark C.

Marco, J. M. *See* Llave, R. de la.

Masur, Howard. *See* Kerckhoff, Steven.

McKean, H. P. and Moll, V., *A threshold for a caricature of the nerve equation*, **12**, 255

Meeks, William H. III. *See* Hoffman, David A.

Meyerhoff, Robert, *The cusped hyperbolic 3-orbifold of minimum volume*, **13**, 154

Millett, K. *See* Freyd, P.

Moll, V. *See* McKean, H. P.

Morgan, Frank, *On finiteness of the number of stable minimal hypersurfaces with a fixed boundary*, **13**, 133

Moriyón, R. *See* Llave, R. de la.

Ocneanu, A. *See* Freyd, P.

Prömel, H.-J. *See* Kolaitis, Ph. G.

Quinn, Frank, *Algebraic K-theory of poly-(finite or cyclic) groups*, **12**, 221

Roberts, Paul, *The vanishing intersection multiplicities of perfect complexes*, **13**, 127

Rothschild, B. L. *See* Kolaitis, Ph. G.

Sawyer, E. *See* Kerman, R.

Shalen, Peter B. *See* Culler, Mark C.

Shelah, Saharon, *Classification of first order theories which have a structure theorem*, **12**, 227

Silverberg, Alice, *Finiteness of Mordell-Weil groups of generic abelian varieties*, **12**, 131

Smillie, John. *See* Kerckhoff, Steven.

Steinberger, Mark and West, James, *Equivariant h-cobordisms and finiteness obstructions*, **12**, 217

Sterling, Ivan. *See* Hsiang, Wu-teh.

Sunada, Toshikazu, *Gel'fand's problem on unitary representations associated with discrete subgroups of* $\mathrm{PSL}_2(\mathbf{R})$, **12**, 237

Tadić, Marko, *Unitary dual of p-adic $GL(n)$. Proof of Bernstein conjectures*, **13**, 39

Tomi, Friedrich and Tromba, Anthony, *On Plateau's problem for minimal surfaces of higher genus in* $\mathbf{R}^3$, **13**, 169

Tromba, Anthony. *See* Tomi, Friedrich.

Varadarajan, V. S. *See* Babbitt, Donald G.

Weinstein, Alan. *See* Fortune, Barry.

Weiss, Benjamin, *Strictly ergodic models for dynamical systems*, **13**, 143

West, James. *See* Steinberger, Mark.

White, Brian, *Homotopy classes in Sobolev spaces and energy minimizing maps*, **13**, 166

Witte, Dave, *Rigidity of some translations on homogeneous spaces*, **12**, 117

Yetter, D. *See* Freyd, P.

BOOK REVIEWS

Agmon, Shmuel, *Lectures on exponential decay of solutions of second-order elliptic equations: bounds on eigenfunctions of N-body Schrödinger operators*, reviewed by Percy Deift, **12**, 165

Aizenberg, L. A. and Dautov, Sh. A., *Differential forms orthogonal to holomorphic functions or forms, and their properties*, reviewed by G. B. Folland, **12**, 156

Baumgartel, H. and Wollenberg, M., *Mathematical scattering theory*, reviewed by Walter A. Strauss, **12**, 172

Bourbaki, N., *Éléments de mathématique. Algèbre commutative*, reviewed by M. Nagata, **12**, 175

Comfort, W. W. and Negrepontis, S., *Chain conditions in topology*, reviewed by James E. Baumgartner, **12**, 145

Dautov, Sh. A. *See* Aizenberg, L. A.

Deo, S. G. *See* Pandit, S. G.

Diestel, Joseph, *Sequences and series in Banach spaces*, reviewed by Yoav Benyamini, **13**, 53

Doob, J. L., *Classical potential theory and its probabilistic counterpart*, reviewed by P. A. Meyer, **12**, 177

Dubrovin, B. A., Novikov, S. P. and Fomenko, A. T., *Modern geometry (Sovremennaya geometriya)*, reviewed by Melvyn S. Berger, **13**, 62

Duren, Peter L., *Univalent functions*, reviewed by Albert Baernstein II, **12**, 158

Fattorini, H. O., *The Cauchy problem*, reviewed by Jerome A. Goldstein, **12**, 292

Fitting, M. C., *Fundamentals of generalized recursion theory*, reviewed by G. Kreisel, **13**, 182

Fomenko, A. T. *See* Dubrovin, B. A.

Fulton, William, *Intersection theory* and *Introduction to intersection theory in algebraic geometry*, reviewed by Steven L. Kleiman, **12**, 137

Gilmer, Robert, *Commutative semigroup rings*, reviewed by Jack Ohm, **12**, 270

Goulden, Ian P. and Jackson, David M., *Combinatorial enumeration*, reviewed by Ira Gessel, **12**, 297

Grenander, Ulf, *Mathematical experiments on the computer*, reviewed by Alan J. Perlis, **12**, 143

Gut, Allen and Schmidt, Klaus D., *Amarts and set function processes*, reviewed by Louis Sucheston, **12**, 306

Hartigan, J. A., *Bayes theory*, reviewed by William D. Sudderth, **12**, 294

Holevo, A. S., *Probabilistic and statistical aspects of quantum theory*, reviewed by S. P. Gudder, **13**, 80

Jackson, David M. *See* Goulden, Ian P.

Jantsen, Jens C., *Einhüllende algebren halbeinfacher Lie-algebren*, reviewed by David A. Vogan, Jr., **12**, 279

Kantorovitz, Shmuel, *Spectral theory of Banach space operators*, reviewed by Florian-Horia Vasilescu, **12**, 289

Kumano-go, Hitoshi, *Pseudo-differential operators*, reviewed by Andre Unterberger, **12**, 149

Leadbetter, M. R., Lindgren, Georg and Rootzen, Holger, *Extreme and related properties of random sequences and processes*, reviewed by Janos Galambos, **13**, 65

Lindgren, Georg. *See* Leadbetter, M. R.

Luecking, D. H. and Rubel, L. A., *Complex analysis, a functional analysis approach*, reviewed by R. B. Burckel, **12**, 283

McShane, E. J., *Unified integration*, reviewed by Elias Saab, **13**, 68

Močkoř, Jiří, *Groups of divisibility*, reviewed by Jack Ohm, **12**, 170

Monakhov, V. N., *Boundary-value problems with free boundaries for elliptic systems of equations*, reviewed by R. Finn, **12**, 268

Negrepontis, S. *See* Comfort, W. W.

Novikov, S. P. *See* Dubrovin, B. A.

Pandit, S. G. and Deo, S. G., *Differential systems involving impulses*, reviewed by O. Hájek, **12**, 272

Pazy, A., *Semigroups of linear operators and applications to partial differential equations*, reviewed by Robert H. Martin, Jr., **12**, 302

Petersen, Bent E., *Introduction to the Fourier transform and pseudo-differential operators*, reviewed by Andre Unterberger, **12**, 149

Roman, Steven, *The umbral calculus*, reviewed by Doron Zeilberger, **13**, 73

Rootzen, Holger. *See* Leadbetter, M. R.

Rubel, L. A. *See* Luecking, D. H.

Schmidt, Klaus D. *See* Gut, Allen.

Strebel, Kurt, *Quadratic differentials*, reviewed by Howard Masur, **12**, 265

Triebel, Hans, *Theory of function spaces*, reviewed by Raymond Johnson, **13**, 76

Vanmarcke, Erik, *Random fields: analysis and synthesis*, reviewed by Simeon M. Berman, **13**, 57

Wawrzyńczyk, Antoni, *Group representations and special functions*, reviewed by Willard Miller, Jr., **13**, 70

Weil, Andre, *Number theory, an approach through history from Hammurapi to Legendre*, reviewed by Paulo Ribenboim, **13**, 173

Wollenberg, M. *See* Baumgartel, H.

Yadrenko, M. I., *Spectral theory of random fields*, reviewed by Simeon M. Berman, **13**, 57

Zimmermann, U., *Linear and combinatorial optimization in ordered algebraic structures*, reviewed by R. A. Cuninghame-Green, **12**, 148

ERRATA

Gray, Jeremy, *Erratum to "Fuchs and the theory of differential equations"*, **12**, 182

Erratum to "Review of Modern geometry (Sovremennaya geometriya)" **13**, 198